

# (12) UK Patent Application (19) GB (11) 2 333 431 (13) A

(43) Date of A Publication 28.07.1999

(21) Application No 9807275.4

(22) Date of Filing 06.04.1998

(30) Priority Data

(31) 9801040

(32) 20.01.1998

(33) GB

(71) Applicant(s)

**Brian Chatfield**  
**Fields Farm, Boundary, CHEADLE, Staffs, ST10 2NU,**  
**United Kingdom**

(72) Inventor(s)

**Brian Chatfield**

(74) Agent and/or Address for Service

**Brian Chatfield**  
**Fields Farm, Boundary, CHEADLE, Staffs, ST10 2NU,**  
**United Kingdom**

(51) INT CL<sup>6</sup>

**A01K 85/01**

(52) UK CL (Edition Q )

**A1A A17E**

(56) Documents Cited

**GB 2239151 A**

**WO 95/03691 A1**

**US 5177891 A**

**US 5148622 A**

**US 4583313 A**

(58) Field of Search

**UK CL (Edition P ) A1A A17A A17C A17E A33**

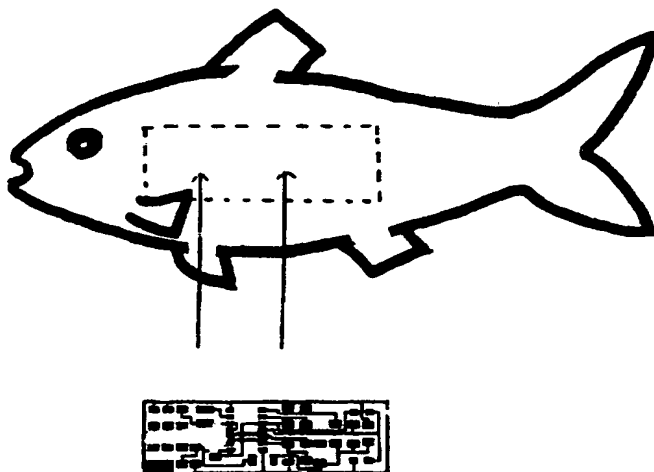
**INT CL<sup>6</sup> A01K 85/01**

(54) Abstract Title

**Electronic fishing lure**

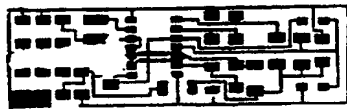
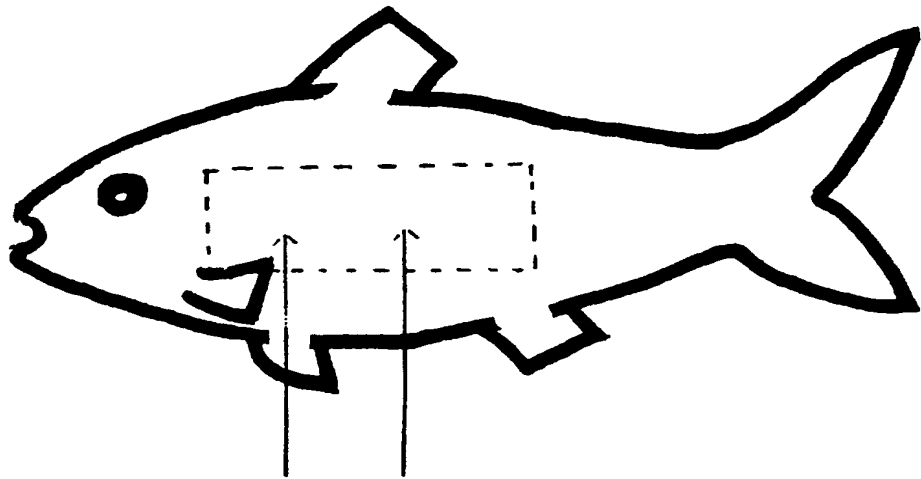
(57) A artificial fishing aid that by means of an electronic and or audio emission simulates the natural discharges and vibrations of various species of fish.

The sealed and self contained electrical assembly can be used as a separate unit or contained within an artificial simulation of a particular species.





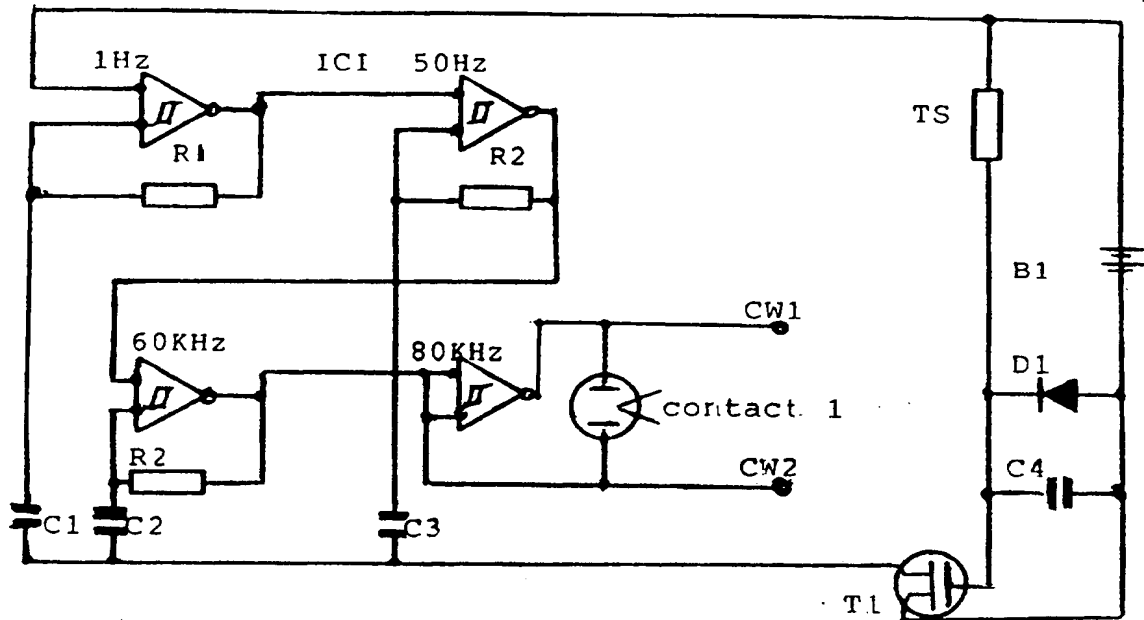
1/2



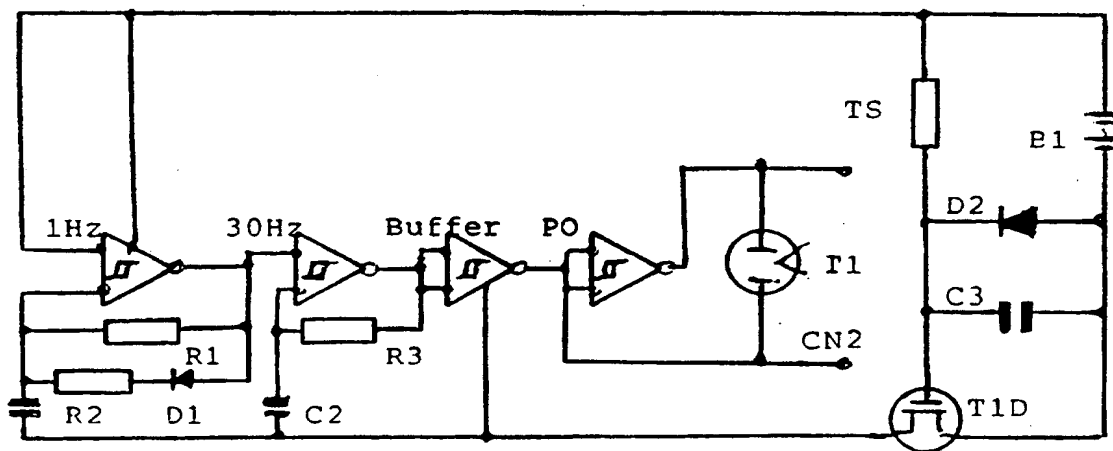


# PRACTICAL CIRCUIT sonic & ultrasonic TYPE A

2/2



## ultrasonic TYPE B





## Description

### Electronic Fishing Lure

The invention relates to a electrical fishing lure/bait that by generating a electrical pulse or random immissions, artificially simulates a patten in the water that is the same as a species or fish in distress, erratic or dying.

### Background

It is well documented that most waters contain carivoures that survive by consuming other species. this device electrically simulates the emmissions of a hurt or distressed species or fish and appears to be a easy meal for a predator. The amazons are detected by the predator through its senses By its internal radar or lateral line.

### Description.

As shown on drawing BC1 the artificial lure/bait is a self contained powered electrical device, complete with power source, and a circuit containing the required programmed 'chirp' or smart chip that emits an electrical single on a pulse or random or erratic preprogrammed schedule that is of a amplitude and frequency and modulation that copies natural emmissions of water bourn species.

The electrical circuit is of a reprogramable type so that different programs of modulation, amplitude and frequency can be entered to suit the type of species that is being hunted .

The device is divided into two basic types. One is in the form of a sealed package, that is introduced into a real dead



species that is then fished in a conventional manner. The second

The second is in the form of a artificial species with the electronics sealed into a lure resembling a species in size and colour and shape.

The device in either form could be permanently 'on', switchable 'on' 'off' by internal switch or external switch. The design can be produced in various sizes and shapes to simulate various species.



## CLAIMS

1. A artificial fishing lure that by means of a electronic emission simulates the natural electrical discharges and vibrational pulses of a species of fish.
2. A artifcial fishing lure as claimed in 1 that only emits an electronic signature,.
3. A artificial fishing lure as claimed in 1 that emits a random electrical signature.
4. A artificial fishing lure as claimed in 1 that emits a audio pulsed signature.
5. A artfificial fishing lure as claimed in 1 that emits a random audio pulsed signature.
6. A artificial fishing lure as claimed in 1 that emits an electrical and audio signature as claimed in 2,3,4,5.
7. A artificial fishing lure substantially as herein described and as detailed in description on Patent Application No. 9801040.8 issued 20th January 1998
8. A artificial fishing lure substantially as herein and as shown on drawing attached to Patent Application.



**Amendments to the claims have been filed as follows**

1. A artificial fishing lure that by means of a electronic emission simulates the natural electrical discharges and vibrational pulses of a species of fish.
2. A artificial fishing lure as claimed in 1 that only emits an electronic signature,.
3. A artificial fishing lure as claimed in 1 that emits a random electrical signature.
4. A artificial fishing lure as claimed in 1 that emits a audio pulsed signature.
5. A artificial fishing lure as claimed in 1 that emits a random audio pulsed signature.
6. A artificial fishing lure as claimed in 1 that emits an electrical and audio signature as claimed in 2,3,4,5.
7. A artificial fishing lure substantially as herein described and as detailed in description on Patent Application No. 9801040.8 issued 20th January 1998
8. A artificial fishing lure substantially as herein and as shown on drawing attached to Patent Application
9. A artificial fishing lure substantantially as claimed in 2,3,4,5 that emits a H F pulsed white sound that is synchronous or non synchronous signature simulating water disturbance and cavitation created during swimming
10. A rechargable capability allowing storage or regeneration of required energy within the artificial lure to substantially as discribed in items 1 through 9
11. A electrical paraphase drive that increases the voltage swing across the trasducer effectively increasing the power output and sonic radiation
12. A tube or reservoir within the body of the lure described above that can contain liquid attractant or colour that is open or pressed out
13. A foam or sealed air or gas reservoir that allows for boyncy regulation within the body as a floatation enverlope
14. An original means of matching audio white noise radiation to the trasducer to the water
15. An original method of generating white noise swash as in claim 9 first through output then reapplied to trasducer
16. A tilt switch with original method of electrical timing





Application No: GB 9807275.4  
Claims searched: 1-8

Examiner: R F Pharoah  
Date of search: 25 June 1998

**Patents Act 1977**  
**Search Report under Section 17**

**Databases searched:**

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.P): A1A: A17A, A17C, A17E, A33

Int Cl (Ed.6): A01K: 85/01

Other:

**Documents considered to be relevant:**

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2239151 A (BRADY) see page 1 lines 23-26	1 at least
X	WO 95/03691 A1 (TORONNEN) see page 4 line 34- page 5 line 23	1 at least
X	US 5177891 A (HOLT) see column 6 lines 1-61	1 at least
X	US 5148622 A (BLAIR) see column 3 line 63 - column 4 line 6	1 at least
X	US 4583313 A (DUGAN) see column 2 lines 47-61	1 at least

X Document indicating lack of novelty or inventive step  
Y Document indicating lack of inventive step if combined with one or more other documents of same category.  
& Member of the same patent family

A Document indicating technological background and/or state of the art.  
P Document published on or after the declared priority date but before the filing date of this invention.  
E Patent document published on or after, but with priority date earlier than, the filing date of this application.